SFUND RECORDS CTR 2205486

CESPA-EC-G 17 June 2005

MEMORANDUM FOR: RECORD

SUBJECT: Trip Report for Quality Assurance Review of Scoring Tables for the Navajo Nation Abandoned Uranium Mine Screening Assessment Study

- 1. Lara Beasley and Brian Jordan of HTRW Branch, Albuquerque District arrived at the offices of TerraSpectra Geomatics in Las Vegas, Nevada on 08 June 2005 and met with Elaine Ezra and Dave Brickley.
- 2. Ms. Beasley and Mr. Jordan completed a review of 66 mine sites on 08 and 09 June 2005 with assistance from Mr. Brickley in operation of the GIS database. The matrix detailing site selection and review criteria can be found as Attachment 1 of this trip report.
- 3. The review of the 66 sites revealed one item of interest and one item requiring correction.
 - Item of interest: On two occasions two or more wells were found to have the exact same GIS location in the database. Further review showed evidence in the database that these wells (counted as individual wells for mine scoring) were in fact different wells due to data in the database showing different depths for the wells. A discussion between Mr. Jordan, Ms. Beasley, Ms. Ezra and Mr. Brickley concluded that for scoring conservatism and different depths of the wells in the references, these wells did not necessarily warrant "merging" these wells into one, although the well location may not be wholly accurate.
 - Item requiring correction: On one occasion information in the database referencing an increase in polygon size after a conversation with Melvin Yazzie indicated the presence of debris piles was not cited in the database although the size increase was evident by looking at the polygon. Mr. Brickley informed Mr. Jordan and Ms. Beasley that this would be corrected and the database would be checked to ensure all sites that were increased in size for this reason included this reference.
- 4. A form documenting the review of each of the 66 sites chosen was filled out electronically and printed and signed by Mr. Jordan and Ms. Beasley. These forms can be found as Attachment 2 of this trip report.

5. Documentation was reviewed that enabled the tracking of all information in the GIS database back to original source documents, including DOE and EPA documents and AML field reports. This information tracking was accomplished within the GIS system through the use of the TerraSpectra S-key identifier.

LARA E. BEASLEY

Environmental Geologist

HTRW Branch, Albuquerque District

Attachment 1 Navajo Abandoned Uranium Mine Nationwide Mine Ranking Quality Assurance Matrix

QA Property Selection Criteria

- Determined the upper twentieth percentile of sites by score (> 850).
- Selected at a minimum twenty percent of those mine locations above a score of 850 and at least one location from every chapter represented in the top twentieth percentile.
- The remaining locations selected for QA were determined from those properties with a score less than 850 and at a minimum one location from every chapter.
- A total of 66 properties were selected for QA review, which represents 12.7% of the total mine locations.

QA Areas of Review

- <u>Mine Information</u>: Verify the relationship between Mine ID, Source ID, Mine Name, Easting coordinates, Northing coordinates, Chapter and combined score.
- <u>Polygon Location</u>: Verify documentation for mine polygon is present and sufficiently justifies polygon extent and includes all known mine features.
- <u>Buffers</u>: Verify buffers have been placed at appropriate evaluation distances.
- <u>Surface Water</u>: Verify presence of any surface water feature within one-mile (overland) of mine drainage.
- Structures: Verify locations and documentation of all structures associated with the buffers for mine polygon. Count number of structures within mine polygon and 200-foot, 4-mile, and 1-mile buffers.
- Wells: Verify locations and documentation of all wells associated with the buffers for mine polygon. Count number of wells within mine polygon and 4-mile, 1-mile and 4-mile buffers.
- <u>Score</u>: Calculate score based on above information and verify score presented.

Attachment 2 Quality Assurance Forms

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Mine ID 163	Structures Count QA
Source ID NA-0114AAB	Structures on Mine
Mine Name	Structures within 200'
Easting 460749.958392	Structures within 1/4 mile 0
Northing 3975585.79642	Structures within 1 mile
Chapter1 Bodaway/Gap	Total Structures in the second
Combined Score QA	And the second of the second o
Confirm mine polygon locational information and documentation. Include review of polygon extents and mine features.	Wells on Mine Wells within 1/4 mile
Confirm appropriate buffers have been drawn for evaluation criteria	Wells within 1 mile 0
Surface Water QA Mine Within One Mile	4 Mile Wells Count 11 Total Wells 11
Overland of a Surface Water Surface Water Score 160	QA of Well Count Information
QA officers	Jano Bear 8-Junos
Brian Jordan Date	Lara Beasley Date

		g QA FOI		
Mine ID	228		Structures	
Source ID	NA-0106		Structures on Mine	
Mine Name	A & B No. 3		Structures within 200	
Easting	461705.036801		Structures within 1/4	mile 15 ✓
Northing	3970341.75366		Structures within 1 n	nile 164 🗸
Chapter1	Cameron	1	Total Structures	179
Combined Score	4740	Score QA		
review of polygon of features.	cumentation include extents and mine.		-Wells on Mine Wells within 1/4 m Wells within 1 mil	
Surface Mine Within One I Overland of a Sur	face Water		4 Mile Wells Court Total Wells QA of Well Count Information	23
QA officers Brian Jo	9) un 2005 ordan Date	-	Lara Beastey	8-J_{m-()}s Date

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NA-0124a V Structures on Mine Mine Name Jack Daniels No. 1-5 Structures within 200' Structures within 1/4 mile 3 ✓ Easting 463797.020584 Structures within 1 mile Northing 3973569.0921 Chapter1 Coalmine Canyon Total Structures 54 Score QA Combined Score 1630 Confirm mine polygon locational Wells on Mine information and documentation. Include review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been Wells within 1 mile drawn for evaluation criteria...... 4 Mile Wells Count 15 Surface Water QA Total Wells Mine Within One Mile QA Overland of a Surface Water **V** QA of Well Count Information Surface Water Score 160 Lara Beasle পিran Jordan∷ Date Date

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Mine ID	124	Structures Count QA
Source ID	NA-0129	Structures on Mine
Mine Name: ⊷	Charles Huskon No. 1	Structures within 200:
Easting	464642.400593	Structures within 1/4 mile 0
Northing	3970419.98176	Structures within 1 mile 60 ✓
Chapter1	Coalmine Canyon	Total Structures 60
Combined Score	Score Q	
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Mine Within Or	The security of the control of the c	Total Wells: 20
Overland of a S Surface Water		QA of Well Count: Information
QA officer	Boundary Boundary	Sample 18-Jn-05
Brian	Jordan Date	Lara Beasley / Date

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Mine ID	125		Structures Count	
Source ID	NA-0127		Structures on Mine	(A
Mine Name			Structures within 200'	
Easting	464693.882938		Structures within 1/4 mile	0 🗸
Northing	3970700.38221		Structures within 1 mile	44 🗸
Chapter1	Coalmine Canyon		Total Structures	44
Combined Score	1320	Score QA		
	cumentation. Include		Wells on Mine	
review of polygon e features.			Wells within 1/4 mile	
drawn for evaluatio	e buffers have been		Wells within 1 mile	2
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QA officers	7 a), one	-	You Pearl 8	T -00
Brian Jo	ordan Date		Lara Beasley Date	e V

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Mine ID	382		Structur	es Count	
Source ID	Cam043		Structures on M	line	OA
Mine Name	and the segregated features are a secretary grown than the sequences.		Structures with	n 200'	V
Easting	464743.130768		Structures withi	n 1/4 mile	
Northing	3966845.22186		Structures with	n 1 mile	0 🗸
Chapter1	Cameron		Total Structure:		1
Combined Score	460	Score QA			
Confirm mine polyginformation and do review of polygon of	cumentation: Include		Wells on Min	e	
features.	iro participa		Wells within	1/4 mile	
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QA officers	28 Jun 2005	- /	YAMA FOR	g 74	Im-05
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Mine ID		36	Structures Coun	it QA
Source ID	NA-0139	CAST CONTROL OF THE C	Structures on Mine	OA
Mine Name	Juan Horse No. 3		Structures within 200'	
Easting	466847.6430	78	Structures within 1/4 mile	4 🗸
Northing	3968694.227	31	Structures within 1 mile	3 🗸
Chapter1	Coalmine Canyon	Score QA	Total Structures	7
Combined Score	70	Score UA		
review of polygor features.	locumentation Include nextents and mine		Wells on Mine Wells within:1/4 mile	1
Confirm appropri	ate buffers have been viton criteria	T ATTS AND A	Wells within 1 mile	2
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Mine Within One Overland of a Si	urface Water		Total Wells QA of Well Count Information	17
Surface Water S	Score 160		mornation	
QA officers	Jan 2015	- (Jana 28 8 8	-Jm-05
Brlan	Jordan ≅ Date		Lara BeasteyD	ate.

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Source ID	Cam068b	· #***		Structures on Mine	·
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Mine Name			i i materialisti.	Structures within 200'	
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Northing	3956208.0	0687	nanidara 1990.	Structures within 1 mile	0 💆
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Brian Jo	rdan Date			Lara Beasiev [Date
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Mine ID	464		Structures Co	int OA
Source ID	999		Structures on Mine	QA
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Mine Name	???Uranium Mine???		Structures within 200'	
Easting	471302.74848		Structures within 1/4 mile	0 🗹
Northing:	3951250.96193		Structures within 1 mile	1, 🗸
Chapter1			Total Structures	3
Combined Score	620	Score QA		
Confirm mine polygo information and doc review of polygon ex features.	umentation. Include		Wells on Mine. Wells within 1/4 mile	
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Mine Within One M Overland of a Surfa			Total Wells QA of Well@count	4
Surface Water Sco	re 160		Information	
QA officers	2 g) w 2003		lar Jean	8-Ju-05
B ri an Jo	rdan Date		Lara Beastey	Date

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NA-0163 Structures on Mine (intibotophyce);ii) أورير لأوياؤوا المجاددات Structures within 200 Mine Name Ryan No. 1 Structures within 1/4 mile Easting 472283.045928 0 🗹 Structures within 1 mile Northing 3957605.28657 . 2000 ···callidac... .iz 0 Chapter1 Coalmine Canyon Total Structures Score QA Combined Score 180, **V** 小爺。 Confirm mine polygon locational · m! ugdáty. Wells on Mine .. 19888871 ndije. information and documentation. Include review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile 4 Mile Wells Count Surface Water QA Total Wells Mine Within One Mile Overland of a Surface Water V QA of Well Count Information Surface Water Score QA officers Brian Jordan Date Date Lara Beasley

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Mine ID	253		Structures Count	OA "
Source ID	NA-0200		Structures on Mine	OA ✓
Mine Name	Moonlight Mine	W.	Structures within 200!	V
Easting	563426.77117		Structures within 1/4 mile	1 2
Northing	4090947.51051		Structures within 1 mile	16 🗹
Chapter1	Oljato		Total Structures	17
Combined Score	1010	Score QA		
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QA officers Brian J	ordan Date		Lara Beasiey Dal	<u>√</u> -65

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Mine ID	248		Structures Count QA	
Source ID	NA-0233		Structures on Mine	6 A ✓
Mine Name	Alma-Seggin M ine		Structures within 200	
Easting:	566068.547608		peradulik vekeniye iline 32	
Northing *****	4083311.17154		Structures within 1 mile 20	integral :
Chapter1	Oljato	Score QA	Total Structures 20	
Combined Score	640	.sweu∧ 		iinaan
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drawn for evaluation	n criteria	7	Wells within 1 mile	.ibarajas
Mine Within One I Overland of a Sur Surface Water Sc	face Water		Total Wells QA of Well Count	
QA officers Brian Jo	Julyos ordan Date		Ave Beasley Date	oS

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NA-0210 ~ Structures on Mine V Structures within 200' Mine Name Monument #1 Annex Mine Structures within 1/4 mile 2 🗸 Easting 568823.681799 4.44 will be the second Structures within 1 mile 27 Northing 4089607.4141 diger s ringula. Total Structures 29 Score QA Combined Score 1240 Confirm mine polygon locational Wells on Mine information and documentation. Include review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been Wells within 1 mile drawn for evaluation criteria : 0850 34 4 Mile Wells Count Surface Water QA 4900 36 Total Wells Mine Within One Mile QA Overland of a Surface Water QA of Well Count Information Surface Water Score QA officers Brian Jordan Date -Lara Beasle Date

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Mine ID		223	Structures Count	QA
Source ID	NA-0237		Structures on Mine	QA ✓
Mine Name	Rock Door Mine		Structures within 200	
Easting	569836.2211	148	Structures within 1/4 mile	1 🗸
Northing	4096789.79	935	Structures within 1 mile	107 🗹 📜
Chapter1	Oljato		Total Structures	108
Combined Score	27	Score QA		M HONE -
Confirm mine polyginformation and do review of polygon of features.	cumentation. Include	2	Wells on Mine Wells within 1/4-mile	
	e buffers have been n criteria		Wells within 1 mile	2
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Surface Water Sc	ore 160		Information	
QA officers	(g) more	r (Ma Bens 8-	In-05
Brian Jo	ordan Date	******	Lara Beasey Dat	te

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Lara Beasle

Date

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Date

	Rankin	g QA Fo	m	
Mine ID	291		Structures Count	QA OA
Source ID	NA-0751		Structures on Mine	V
Mine Name	The second of th		Structures within 200	V
Easting	586689.418425		Structures within 1/4 mile	0 🗸
Northing	3925872.93978		Structures within 1 mile	5
Chapter1	Indian Wells	Score: QA	Total Structures	5
Combined Score	440	.scole c∧	A CANADA CANADA A SINGA SI	Bilgirdi entriktirannoiski i s Inima sii sii sii sii sii sii sii
review of polygon features	extents and mine.		Wells on Mine Wells within 1/4 mile Wells within 1 mile	1
Mine Within One	LESCOBLOS I L. L. CA		4 Mile Wells Count Tôtal Wells	9
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QA officers	2 gl 2005		Vara Front 8-	Jun-05
Brian J	ordan Date		Lara Beasley Dat	e

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Maria Cara majakharan	Structures on Mine
	A STATE OF THE STA
Mine Name	Structures within 200' ✓
	Structures within 1/4 mile
Easting 594843.24095	Structures within 1/4 mile 0 🗹
	Structures within 1 mile
Northing 4035986.18437	Structures within 1 fille 11
Chapter1 Chilchinbeto	Total Structures 11
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Combined Score 520	
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drawn for evaluation criteria	Wells within 1 mile 1
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Mine Within One Mile	Total Wells 10
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	QA of Well Count
Surface Water Score 160	Information
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Brian Jordan Date	Lara Beagley Date
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Mine ID		75	Structures Co	
Source ID NA-07	705		Structures on Mine	OA
Mine Name			Structures within 200	
Easting	595315.697	985	Structures within 1/4 mil	e 3 ✓
Northing	4035770.67		Structures within 1 mile	8 🗸
Chapter1 Chilch	ninbeto		Total Structures	11
Combined Score		Score QA		
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Mine Within One Mile	oter I) A	Total Wells	10
Surface Water Score	160		QA of Well Count Information	
QA officers //				
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Brian Jordan	n Date		Lara Beasley/	Date

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Mine ID	80	12.8	Structures ©	ount QA
Source ID	NA-0706	·	Structures on Mine	QA N
Mine Name		(pro 1746 200 pro 1970 1970 1970 1970 1970 1970 1970 1970	Structures within 200'	Y 500
Easting			Structures within 1/4 m	ile: 6 🗸
*Easting	598259.960339			
Northing	4011536.50111		Structures within 1 mile	33
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Combined Score	1160	i distributi		i N ac
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review of polygon ex	umentationInclude	Sidne-Aggreja (d.). Mar - randi d	Wells on Mine)
features.			Wells within 1/4 mile	ižš. ja _{rad}
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QA officers)		KINIKKI	V1020 1.00 V400000 A.A.	ameng majaka san
Caroline is	River John		Jan Beas 1	8-Ju-05
Brian Io	rdan Date		Lara Beasley	Date
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p.5: - ; ; ····			sibhanasakhasa
Mine ID 52	1	Structures Count Q	A QA
Source ID NA-0204		Structures on Mine	
Mine Name Willie Water Claim	-1954, British.	Structures within 200'	V
Easting 599410.95156	2	Structures within 1/4 mile	0.1
Northing 4087654.8345	8	Structures within 1 mile	10
Chapter1 Kayenta		Total Structures	10
Combined Score 87	Score QA		······································
		24 J. V. 1980 1980 1980 1980 1980 1980 1980 1980	/ C000000000000000000000000000000000000
Confirm mine polygon locational information and documentation. Include		Wells on Mine	
review of polygon extents and mine			
features.		Wells within 1/4 mile	in will
Confirm appropriate buffers have been drawn for evaluation criteria		Wells within I mile	91-
Surface Water QA		4 Mile Wells Count	6
Mine Within One Mile Yes QA		Total Wells	15
Overland of a Surface Water		QA of Well Count	
Surface Water Score 160		Information 💆	
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QA officers 7			
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Brian Jordan Date		Lara Beasley Date	

	AUM Nations	
Mine ID Source ID NA-0702	81	Structures Count QA
Mine Name		Structures within 200'
Northing 400	572.845249 7799.18132	Structures within 1/4 mile 0 🗹 Structures within 1 mile 1
Chapter1 Tselani/Cottonwo	Score QA	Total Structures 1
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QA officers Brian Jordan Date	<i>n∂&</i> 5 e	Beay 8 Jw () Lara Beas(e) Date

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Mine ID 406	Structures Count QA
Source ID Blk029	Structures on Mine
Mine Name	Structures within 200
Easting 601916.406164	Structures within 1/4 mile 0
Northing 4014181.74039	Structures within 1 mile
Chapter1 Black Mesa	Total Structures
Combined Score QA	
Confirm mine polygon locational information and documentation. Include review of polygon extents and mine features.	Wells on Mine Wells within 1/4 mile
Confirm appropriate buffers have been drawn for evaluation criteria	Wells within 1 mile 0
Surface Water QA	4 Mile Wells Count 5
Mine Within One Mile Yes QA	Total Wells 5
Overland of a Surface Water Surface Water Score 160	QA of Well Count Information
QA officers	J 2 1
Brian Jordan Date	Lara Beasley Date

ine ID	239		Structures Count QA	
ource ID	NA-0226		Structures on Mine	QA
ine Name	Harvey Blackwater Claim (North)		Structures within 200	7 ⊘ :
asting	603266.931391			5 ∠
orthing	4095460.4371		Structures within 1 mile	B ⊻ .
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Surfa	ce Water QA		4 Mile Wells Count	4 (80)
fine Within One	QA		Total Wells	4
urface Water S			QA of Well Count Information	

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NA-0213 Structures on Mine Mine Name Structures within 200' jiyayi Structures within 1/4 mile 0 🗸 Easting 607616.588851 6 **✓** Structures within 1 mile Northing 4087761.79434 n (Siller Total Structures Chapter1 Dennehotso 6 Score QA Combined Score . 🗸 Confirm mine polygon locational information and documentation. Include Wells on Mine review of polygon extents and mine: features. Wells within 1/4 mile Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile 4 Mile Wells Count Surface Water QA Total Wells 8 Mine Within One Mile QA Overland of a Surface Water . . QA of Well Count Information *** 160 Surface Water Score Lara Beasley Brian Jordan Date Date

Navajo AUM Nationwide Mine Ranking QA Form Structures Count QA Source ID Swt047 V Structures on Mine. Mine Name Structures within 200' ✓... Structures within 1/4 mile 0 🗸 Easting 637307.011983 14. Structures within 1 mile Northing 4080781.18694 Chapter1 Red Mesa Total Structures with the state of Score QA Combined Score 620 Confirm mine polygon locational information and documentation. Include Wells on Mine review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been Wells within 1 mile drawn for evaluation criteria 4 Mile Wells Count 13 Surface Water QA Total Wells Mine Within One Mile Overland of a Surface Water QA of Well Count Information Surface Water Score QA offiøers Brian Jordan Date Lara Beasley Date

	⊞Navajo AUN Ranki	liNationwi		
Mine ID	30	0	Structures Count (
Source ID	Zhealy Tso, N. Part Parcel 1		Structures on Mine	8
Mine Name	Zhealy Tso		Structures within 200	V
Easting	637823.16057		Structures within 1/4 mile	0 🗸
Northing	4006096.1337		Structures within 1 mile	8 🛂
Chapter1	Chinle		Total Structures	8
Combined Score	35	Score QA		an abalanas
review of polygon e	cumentation. Include		Wells on Mine	
features. Confirm appropriat drawn for evaluation	e buffers have been		Wells within 1/4 mile Wells within 1 mile	0
Surface	e Water QA		4 Mile Wells Count	3
Mine Within One I Overland of a Sur			Total Wells	3
Surface Water Sc	***************************************		QA of Well Count Information	✓
QA officers	2 Dn 200		Arma Par 2-	Гип-OS
Ørian Jo	ordan Date		Lara Beasley Date	

19 E. ..

Mine ID 188	Structures Count QA
Source ID NA-0509B	Structures on Mine
Mine Name	Structures within 200'
Easting 639455.674399	Structures within 1/4 mile 0
Northing 4080271.74257	Structures within 1 mile 38 🗹
Chapter1 Sweetwater	Total Structures 38
Combined Score A 1390	The second secon
Confirm mine polygon locational information and documentation. Include review of polygon extents and mine features.	Wells on Mine Wells within 1/4 mile
Confirm appropriate buffers have been drawn for evaluation criteria	Wells within 1 mile 8
Surface Water OA	4 Mile Wells Count 7
Mine Within One Mile Overland of a Surface Water	Total Wells 15
Surface Water Score	Information
QA officers)	Jan Bear 8- Jun-05
Brian Jordan Date	Lara Beasley Date

	50.000	1500 · 1500 · 1	and the factor of	F** *** *** ****	
Mine ID	48882. ·	290		Structures Count	QA _{QA}
Source ID	Occurrent	e B	Fileschen in the state of the s	Structures on Mine	1
Mine Name	Occurrent	e B		Structures within 200'	1
Eastine	· ~~		- Aggregatijska	Structures within 1/4 mile	
Easting	- Madaliyy (b)	640679.40966	5		<u></u>
Northing		4005195.4229	9	Structures within 1 mile	166 🗹
Chapter1	Chinle			Total Structures	170
(165)			Score QA		
Combined Score		4020		· 《 《 《 《 《 《 《 《 》 》 《 》 《 《 《 《 《 《 》 》 》 《 》 《 》 》 《 》 《 》 》 《 》 》 《 》	
Confirm mine polyconformation and do review of polygon of features. Confirm appropriate	cumentation extents and	n Include mine		Wells on Mine Wells within 1/4 mile	
drawn for evaluatio				Wells within 1 mile	0
Surface		QA	The second secon	4 Mile Wells Count Total Wells	4
Overland of a Sur	face Water			QA of Well Count	
Surface Water Sc	ore	160		information	Y
QA officers	Le	2 g. Indo		San Ban 8	J ₁ -05
Brian Jo	ordan	Date	terragregisare. Selec	Lara Beasley Dat	te

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA NA-0507 Source ID V Structures on Mine V Structures within 200' Mine Name Toh Atin Mesa Mine Structures within 1/4 mile 0 🗸 Easting. 646817.747293 ibanii 26 Structures within 1 mile Northing 4085692.8841 Chapter1 Red Mesa Total Structures Score QA Combined Score 830 Confirm mine polygon locational information and documentation. Include Wells on Mine review of polygon extents and mine features...... Wells within 1/4 mile Confirm appropriate buffers have been. Wells within 1 mile drawn for evaluation criteria 4 Mile Wells Count 15 Surface Water QA 780 Total Wells 🗼 🎄 15 Mine Within One Mile 🐙 QA Overland of a Surface Water **V** QA of Well Count 36 Information Surface Water Score QA offigers Brian Jordan Lara Beastey Date Date

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NA-0910 Structures on Mine Mine Name Structures within 200' gggkannhuman. At Easting 0 1 Structures within 1/4 mile 651957.624967 a production of the least of the second 30 Structures within 1 mile Northing ** 4082230.944 sabajján Chapter1 Sweetwater **Total Structures** 30 Score QA Combined Score Confirm mine polygon locational information and documentation Include Wells on Mine review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile: Surface Water QA 4 Mile Wells Count - Japan pin Andr Mine Within One Mile Total Wells QA Overland of a Surface Water V QA of Well Count Information Surface Water Score 160 QA officers Date Brian Jordan Lara Beasley Date

ine ID	11	4	Structures Count	QA QA
ource ID NA-0)922B		Structures on Mine	V
ine Name			Structures within 200'	-
asting	652036.98255	7	Structures within 1/4 mile	0 🗸
orthing	4082181.5519	2	Structures within 1#mile	33
hapter1 Swe	etwater		Total Structures	33
ombined Score	153	Score QA		
onfirm mine polygon lo formation and docume view of polygon extent	ntation: Include		Wells on Mine	
atures: onfirm appropriate buff	i. Zienesis singi dan dingi a tang satu		Wells within 1/4 mile	3
awn for evaluation crite			Wells within 1 mile	6
Surface W	ater QA		4 Mile Wells Count	11
fine Within One Mile	Yes QA		Total Wells	20
overland of a Surface V	<u> </u>		QA of Well Count Information	V
urface Water Score	160		in in internation	

Navajo AUM Nationwide Mine Ranking QA Form. Structures Count QA Mine ID Maria di para 1464. NA-0513 Source ID Structures on Mine Structures within 200 Mine Name 0 🗸 Structures within 1/4 mile Easting 652153.850892 Structures within 1 mile 2 🗸 . 4062497.85397 Northing *Total Structures Chapter1 Sweetwater Score QA Combined Score ~_^904:09: : The Confession of the Confirm mine polygon locational Wells on Mine information and documentation. Include review of polygon extents and mine features. Wells within 1/4 mile... Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile 4 Mile Wells Count Surface Water QA Total Wells Mine Within One Mile Overland of a Surface Water V QA of Well Count Information Surface Water Score Lara Beasley Date **∕B**rian Jordan Date

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID Structures on Mine Structures within 200 Mine Name 3 🗸 Structures within 1/4 mile Easting 652865.735082 14 🗹 Structures within 1 mile Northing 4086750.8387 Chapter1 Teec Nos Pos **Total Structures** Score QA 830 Combined Score · WARRENCE: Confirm mine polygon locational Wells on Mine information and documentation. Include review of polygon extents and mine Wells within 1/4 mile Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile 4 Mile Wells Count Surface Water QA Total Wells Mine Within One Mile Overland of a Surface Water QA of Well Count Information Surface Water Score ⊿Brian Jordan Date Lara Beasley Date

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Mine ID	11	2	Structures 0	Count QA
141000);	ONNERS DALLE DE L'ALLE DE		. and Linds Militing	QA QA
Source ID NA-022	9		Structures on Mine	
Maria Same		Single Finance College	v · · · · · · · · · · · · · · · · · · ·	.000 1
Adia - Alaman Tagana				
Mine Name Montezu	uma Creek Mine		Structures within 200	
· · · · · · · · · · · · · · · · · · ·			in in the constitution of	
Easting	653856.74748	a to. adbord	Structures within 1/4	mile 🚆 0 🗹
	000000.777	Maria da	Large to a substitute	
Northing	4124927.6128	2	Structures within 1 m	ilè 🌞 6 🗹
1				. <u>I</u>
Chapter1 Aneth			Total Structures	∯ 39€ 6
that is commission.	**************************************	Score QA		, , , , , , , , , , , , , , , , , , ,
Combined Score	67	<u>'0</u>	can in the second control of the second cont	
i destinados en en esta de la compansión en esta en es			efiliano -, com	ur wakuk. ·
Confirm mine polygon locat	ional 💮 🗸	AND AND		p. 100000000000
information and documenta			Wells on Mine	
review of polygon extents a	nd mine	#28#£*.		
features.	TARLISENERRINER H	with white	Wells within 1/4 m	ile **
Confirm appropriate buffers	have been	1.4888 8.4.00		
drawn for evaluation criteria			Wells within 1 mile	15579 50
		Aller Sanites 2		
0 6 144			4 Mile Wells Coun	34
Surface Wat	er QA		4 IVIIIE VVEIIS COUIT	1 34 May 1
l har Stafes such and				.ju
Mine Within One Mile	Yes	Landers are a	Total Wells	35
Overland of a Surface Wat	er CA			
a part de l'outes	· ·	1.	QA of Well Count	»· · · · · · · · · · · · · · · · · · ·
Surface Water Score	160	in sin	Information	Y
Surface Water Score	100	ii III. sw		1982 1882 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1	*		- An - 140 34 1.1
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QA officers	Stati ¶	iio minga 🗻	Confederation 1	oji – Cojika
	9 201	THE SHAPE PROPERTY	MAKONI	4-1-05
	- I dm 20		MAN MOOR!	
Bran Jordan	Date	ey 'r - rem- Pres (669) Magae, Ganada	Lara Beasley	Date
- Dean Coldan		ir ima ona		

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		nking QA	Form		
Mine ID	Partie (292	Stru	ctures Count	QA I
Source ID:	NA-0900		Structure	s on Mine	QA •
Mine Name	,		Structure	s within 200'	
Easting	653892.3		->=\st#\st#\st#\	s within 1/4 mile	8 2
Northing	4085334.	22997	Structure	s within 1 mile	31 🗸
Chapter1	Teec Nos Pos		Total Stru	ıctures	39
Combined Score	A00	1370 Score QA	-tarasida cad	A88887-1-0	
information and do review of polygon features.	te buffers have been		Wells	on Mine within 1/4 mile	
8.188901	e Water QA	QA V	Total V	Wells Count	19 19
Surface Water So	core 160		Inform		
QA officers	E glind	2 (hast	200 Jan 95	<u> Jun-05</u>
Brian J	ordan Date		Lara I	Be asl ey Dat	e

* 240 mm megapp

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Mine ID			Structures Count	QA QA
	NA-0902, NA-0918		Structures on Mine	GA.
			Sudctures on withe	
Mine Name		i de la companya di manana	Structures within 200	
., ringiste to William.	· . · · · · · · · · · · · · · · · · · ·			
Easting	654134.808895		Structures within 1/4 mile	11.2
		and the second second second	Structures within 1 mile	34 🗸
Northing	4085123.10623	Last 1 and Landshort Communication	Condition with Thine]
Chapter1			Total Structures	45
LOUINDE HORA	· · · · · · · · · · · · · · · · · · ·	Score QA		J
Combined Score	1630			**************************************
Confirm mine polygo	on locational			
information and doc			Wells on Mine	
review of polygon ex	,			
features.	2, 1, 10, 10, 10, 11, 11, 11, 11, 11, 11,	9.8	de.	7
Confirm appropriate drawn for evaluation	buffers have been	-1	Wells within 1 mile	· I · · · · · · jyaga ()
diawn for evaluation	CITICETIA		vvens within 1 mile	
Surface	Water QA		4 Mile Wells Count	19
Mine Within One M			rotai vveiis	20
Overland of a Surfa	ice Water		::Pebasinus avushi	
Surface Water Sco	re 160		QA of Well Count	₹
Surface Water Sco	100			
	2005 (30			~·· (<:\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
QA officers/				· zółkówiego))
Wh	C- 9 Jun 2000	- /	Mra Bown 9	-Jun-05
Debn la	rdan Date		J oro Boogley - Do	+0
Defail JU	uuaii 🌋 🗸 ale 🕌 🤃		Lara Beasley Da	.C

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NA-0338 Structures on Mine Structures within 200 \mathbf{V} Mine Name West Mesa Mine A series and the series of Structures within 1/4 mile V Easting 654497.611001 Structures within 1 mile 4051663.34563 **Northing** Total Structures Chapter1 Round Rock Score QA Combined Score 250 Confirm mine polygon locational information and documentation. Include Wells on Mine review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile 0 4 Mile Wells Count Surface Water QA grigorit cognitare a serie Total Wells Mine Within One Mile Overland of a Surface Water V **QA of Well Count** Information Surface Water Score QA officers Lara Beasley Brian Jordan Date Date

Contraction (Contraction)		igen - Mana			A CONTRACTOR
Mine ID	yy in the first of the second	104		Structures C	ount QA
Source ID	NA-0320			Structures on Mine	
Mine Name		Tables	^{er} d. Amber	Structures within 200	38 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Easting	656784.79	2586		Structures within 1/4	mile 0
Northing ***	4046333.5	8911		Structures within 1 m	ile 10 🗹
Chapter1	Cove			Total Structures	10
Combined Score	10000000000000000000000000000000000000	Score C	L L		
	on locational cumentation. Include xtents and mine			Wells on Mine	
features.	e buffers have been	V	. ré ni as	Wells within 1/4 mi	10
Surface	Water QA			4 Mile Wells Count	13
Mine Within One M Overland of a Surf		QA		Total Wells	13
Surface Water Sco				QA of Well Count Information	
QA officers	701	**** **** **** ****	$-\frac{\overline{\zeta}}{\zeta}$	101	0 7 10
Brian Jo	ordan Date	49 2		Lara Beasley	9-Jun-05 Date
L			-4883	<u> </u>	

Navajo AUM Nationwide Mine Ranking QA Form Structures Count QA Mine ID Source ID NA-0300, NA-0310B-D Structures on Mine Mine Name Structures within 200's Structures within 1/4 mile Easting 659194.888868 Structures within 1 mile Northing 4043344.76596 Chapter1 Total Structures i., -laj**iliji** Score QA 2.8 Combined Score 270 Confirm mine polygon locational information and documentation. Include Wells on Mine review of polygon extents and mine Wells within 1/4 mile Confirm appropriate buffers have been 📝 Wells within 1 mile drawn for evaluation criteria 4 Mile Wells Count Surface Water QA Total Wells Mine Within One Mile Overland of a Surface Water QA of Well Count Information 160 Surface Water Score QA officers Lara Beasley Brian Jordan Date Date

L.				300
Mine ID	TOTAL CONTRACTOR CONTRACTOR	208	Structures Count QA	/AD: - Prioles
Source ID	NA-0325		O/ Structures on Mine ✓	A Q
Mine Name	Camp Mine		Structures within 200'	
Easting	659207.	00708	Structures within 1/4 mile 0	
Northing	4039702.	THE STANSON	Structures within 1 mile 0	
Chapter1	Round Rock		Total Structures 0	
Combined Score		200		
Confirm mine polyginformation and do review of polygon e features.	gon locational		Wells on Mine	
	te buffers have been on criteria	✓	Wells within 1/4 mile Wells within 1 mile 0	isisaa.a
Surface	e Water QA		4 Mile Wells Count 4	
Mine Within One I		QA	Total Wells 4	M
Surface Water Sc	page 2 differ		QA of Well Count Information	
QA officers	CHARLES NATIONAL NATI	A STATE OF THE STA		
A.K.	gome	2 (Your Blad 9-Jun-0	Ş
Brian Jo	ordan Date	100000000000000000000000000000000000000	Lara Beasley Date	

	aan in the comment	2 4 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Company Commencer Commence	
Mine ID	47	72	Structures Count	
Source ID	Cove Transfer Station	on spinking	Structures on Mine	Q^
	Annonia de Calanda de C	Eustria de 	ing the second s	
Mine Name	Cove Transfer Station		Structures within 200'	2
Easting		-	Structures within 1/4 mile	22 🗸
Casung	659600.79277	71 .		
Northing	4047695.47	18	Structures within 1 mile	127 🗹
Chapter1	Cove	Profession Co.	Total Structures	151
		Score QA		
Combined Score	454			W est to a
	on locational cumentation. Include extents and mine		Wells on Mine Wells within 1/4 mile	2
Confirm appropriate drawn for evaluation	e buffers have been		Wells within 1 mile	0
Surface	e Water QA		4 Mile Wells Count	16
Overland of a Surf				
Surface Water Sco			QA of Well Count Information	idajnje pri
QA officers				onx I
lele	I g) m soo		Jana Dean 9-	Tun-05
Brian Jo	3448888888		Lara Beasley Da	te

Mine ID	26		Structures Count QA
Source ID	NA-0409		Structures on Mine
Mine Name	Hazel Mine		Structures within 200'
Easting.	673909.266737		Structures within 1/4 mile 0
Northing	4070727.29596		Structures within 1 mile 3
Chapter1	Red Valley		Total Structures 3
Combined Score	410	Score QA ✓	
Confirm mine polyg information and do review of polygon of features.	cumentation: Include		Wells on Mine Wells within 1/4 mile
Confirm appropriat drawn for evaluatio	e buffers have been		Weils Within 1 mile 0
Surface	e Water QA		4 Mile Wells Count 19
Mine Within One of Overland of a Surface Water Sc	face Water		Total Wells 19 QA of Well Count Information ✓
Surface vvaler SC			
QA officers	2 genloos	-	lano Baul 9-Tra-05
Brian J o	ordan Date		Lara Beasley Date

	Navajo AUN Rank	/ Nationwi	A STATE OF THE PROPERTY OF THE	
Mine ID		19	Structures Count	
Source ID	NA-0808		Structures on Mine	QA ✓
Mine Name			Structures within 200	1 🗹
Easting	673994.883	65	Structures within 1/4 mile	10 🗹
Northing	4068594.664	99	Structures within 1 mile	20 🗸
Chapter1	Red Valley		Total Structures	31
Combined Score	16	Score QA		
	lygon locational documentation. Include n extents and mine		Wells on Mine	
features.			Wells within 1/4 mile	2
drawn for evaluat	ate buffers have been vition criteria		Wells within 1 mile	1
Surfa	ce Water QA		4 Mile Wells Count	16
Mine Within One Overland of a Si	uface Water	A Z	Total Wells QA of Well Count	19
Surface Water S	Score 160		Information	
QA officers	Don't	Dues (Vara Braul 9-	(ha-05
Brian	Jordan Date		Lara Beasley Dat	ie.

Navajo AUM Nationwide Mine

	Navajo A	Nation	wide Mine	
		anking QA F		.a.robyst
Mine ID	A diladika	18	Structures Cou	
Source ID	NA-0801		Structures on Mine	OA V
Mine Name			Structures within 200'	
Easting	674867		Structures within 1/4 mile	1 🗸
Northing	406787	7.43473	Structures within 1 mile	17 🗹
Chapter1	Red Valley		Total Structures	18
Combined Score		Score QA		
Confirm mine polycinformation and do review of polygon e features.	cumentation. Include		Wells on Mine Wells within 1/4 mile	
Confirm appropriate drawn for evaluation	e buffers have been nicriteria		Wells within 1 mile	·
Surface	e Water QA	1	4 Mile Wells Count	
Mine Within One M Overland of a Surf	3	QA V	Total Wells QA of Well Count	
Surface Water Sci	ore 160		Information	
QA officers	1 9.	n20	Mara Harl 9	-J40-05
Brian Jo	ordan Date		Lara Beasley [Date

Silvania - manipalan albanya			96 (3.200) ./2.60°.	* : ::::::::::::::::::::::::::::::::::
Mine ID		480	Structures Co	ount QA
Source ID N/	A-0821		Structures on Mine	~ ~~~~
3000 V 1 11 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3			Otractares on Mile	
	tripped Area 3 of VCA		Structures within 200	
P	ot 3			ile 0 🗸
Easting	675339.453	303	Structures within 1/4 m	
Northing	4064919.218	384	Structures within 1 mile	46
Chapter1 R	ed Valley	Water	**Total Structures	46
onapto: 1,888	ou vanoy			
Combined Score	14	Score QA	indiffer Jacobeller Hillian Hillian	riini
Confirm mine polygon			.4.81	
information and docur			Wells on Mine	
review of polygon externation features.	ents and mine).	
		_	Wells within 1/4 mile	
Confirm appropriate be drawn for evaluation of			Wells within 1 mile	5
Surface \	Water QA	or white the second	4 Mile Wells Count	15
22/2/2011/1912			Total Wells	20
Mine Within One Mile Overland of a Surface		<u>2</u> A		
		Y	QA of Well Count	
Surface Water Score	160		Information	(*************************************
QA officers			4 5	
41/1	9 dons	1205 ()	en pearl	9-14-05
Brian Jor	dan Date	indhejidetejüstes van	Lara Beasley	Date

Navajo AUM Nationwide Mine Ranking QA Form . Printer in . Mine ID Structures Count QA **QA** Source ID Structures on Mine Mine Name Structures within 200' Easting Structures within 1/4 mile. 2 🗸 675410.913403 Northing Structures within 1 mile 4075304.09008 Total Structures 7 Chapter1 Beclabito Score QA Combined Score The state of the s Confirm mine polygon locational information and documentation: Include Wells on Mine review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been 0 drawn for evaluation criteria Wells within 1 mile 4 Mile Wells Count Surface Water QA Total Wells Mine Within One Mile QA* 11,671 (11**16**) Overland of a Surface Water Jidolika . QA of Well Count Information * Surface Water Score QA offigers Brian Jordan Date Lara Beasley Date

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NA-0420 I Krede I million operation visible Structures on Mine* Îr-19ks i dugi Structures within 200 Mine Name Structures within 1/4 mile 68 ✔ Easting 676869.360762 Structures within 1 mile 107 4078265.14849 **Northing** Chapter1 Total Structures Beclabito 175 Score QA Combined Score 5910₈ .vzgaggiraljinopiskijikti:14-vz ulga-Confirm mine polygon locational Wells on Mine information and documentation. Include review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been Wells within 1 mile drawn for evaluation criteria 4 Mile Wells Count Surface Water QA Total Wells Mine Within One Mile Overland of a Surface Water QA of Well Count Information Surface Water Score Ɓrian Jordan Date⁻ Lara Beasley Date

	14. 44	. أن عاقب .	* *	and the same of th	
Mine ID		308	. 1881. 	Structures Count	QA QA
Source ID	NMMK0124			Structures on Mine	Z.
Mine Name	Section 13			Structures within 200'	
Easting	718239.9	98607	W.	Structures within 1/4 mile	0 🗸
Northing	3944063.	16563		Structures within 1 mile	27 🗸
Chapter1	Church Rock			Total Structures	27
Combined Score	****	770 Score QA	politic 20	□ 「日本会社会」 「「日本会社会」 「日本会社会」 「日本会社会社会」 「日本会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社会社	
Confirm mine poly	gon locational cumentation. Include	V		Wells on Mine	
features. Confirm appropriat drawn for evaluatio	e buffers have been	Y		Wells within 1/4 mile Wells within 1 mile	0
	e Water QA			4 Mile Wells Count	7
Mine Within One I Overland of a Sur	face Water	QA 🗸			7
Surface Water So	ore 160			QA of Well Count Information	
QA officers					
	C 2Jm	205		ma Bay 9-	Jun-05
Je rian J	ordan Date			Lara Bea s ley Dat	e

8.000000000000000000000000000000000000			SS and all aliment	
Mine ID	307		Structures Cour	
Source ID	NMMK0034, NMMK0318, NMMK0319		Structures on Mine	1 Z
Mine Name	Church Rock		Structures within 200!	
Easting	721283.829011		Structures within 1/4 mile	2
Northing ::	3944667.56675		Structures within 1 mile	48
Chapter1	Church Rock	a et a e	Total Structures	51
Combined Score	1720	Score QA		n in the state of
Confirm mine polyc information and do review of polygon.	cumentationInclude		Wells on Mine	1
features.	e buffers have been		Wells within 1/4 mile	
drawn for evaluation			Wells within 1 mile	0
Surface	e Water QA		4 Mile Wells Count	10
Mine Within One I Overland of a Sur			Total Wells	12
Surface Water Sc			QA of Well Count Information	
QA officers	Approximation of the second of			
# S	- 9/m/00	- /	Vara Keary 9	-Trc-05
Brian J	ordan Date		Lara Beas (ey) Da	ate

Source ID NMMK0112 Structu Mine Name NE Church Rock No. 1 Structu Easting 726199.628836 Structu Northing 3949719.84773 Structu Chapter1 Coyote Canyon Total S Score QA Combined Score 1850	res within 1/4 mile 7
Source ID NMMK0112 Structu Mine Name NE Church Rock No. 1 Structu Easting 726199.628836 Structu Northing 3949719.84773 Structu Chapter1 Coyote Canyon Total S Score QA Combined Score 1850 Confirm mine polygon locational	res within 1/4 mile 7 🗸
Mine Name NE Church Rock No. 1 Structu Easting 726199.628836 Structu Northing 3949719.84773 Structu Chapter1 Coyote Canyon Total S Score QA Combined Score 1850 Confirm mine polygon locational	res within 1/4 mile 7 🗹
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Total	Wells 10
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Mine ID	471		Structures Count	QA
Source ID	NMMK0125		Structures on Mine	13
Mine Name	Church Rock Mill		Structures within 200	
Easting	726323.623191		Structures within 1/4 mile	13
Northing	3948006.07173		Structures within 1 mile	50 🗸
Chapter1	Pinedale		Total Structures	76
Combined Score	4610	Score QA ✓		
Gonfirm mine polyc information and do review of polygon of features.	cumentation Include		Wells on Mine	
L. S.	e buffers have been.		Wells within 1/4 mile	2
	e Water QA		4 Mile Wells Count Total Wells	10
Mine Within One I Overland of a Sur	face Water		QA of Well Count	
Surface Water Sc	ore 160		Information	
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Mine ID	NAME SHARES	311		Structures Count	
Source ID	NMMK0341			Structures on Mine	—-°A
Mine Name	Westwater		- AMP	Structures within 200'	
Easting	72672	3.672861	rine el	Structures within 1/4 mile	
Northing	39373	68.29755	i i	Structures within 1 mile	
Chapter1	Iyanbito	Score		Total Structures	0
Combined Score		290	5		
Confirm mine polyg information and doc review of polygon e	cumentation. Includ	e		Wells on Mine	
features. Confirm appropriate	huffere have been			Wells within 1/4 mile	r galijiji i
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Surface	Water QA	······································	-146- 145:	4 Mile Wells Count	13
Mine Within One M Overland of a Surfa		QA 🖟	* *	Total Wells	13
Surface Water Sco	pre 160			QA of Well Count Information	V
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Hall.	<u> 9</u> J.	n2605	· ()	Min Food 9-Ju	"كە-ئ
Brian Jo	ordan Date	The second secon	* *	Lara Beasley Dat	e

	Kank	ing QA Fo	rm	
Mine ID		317	Structures Count	
Source ID	NMMK0102		Structures on Mine	OA ✓
Mine Name	Mariano Lake		Structures within 200'	V
Easting		177	Structures within 1/4 mile	18
Northing	3937211.987	751	Structures within 1 mile	27 🗹
Chapter1	Mariano Lake		Total Structures	45
Combined Scor		Score QA		
information and review of polygo	olygon locational of the documentation. Include on extents and mine		Wells on Mine	
features.			Wells within 1/4 mile	
drawn for evalu	riate buffers have been ation criteria		Wells within 1 mile	1
Surfa	ace Water QA		4 Mile Wells Count	9
	ne Mile		Total Wells	10
Surface Water	Score 160		QA of Well Count information	V
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Brian	Jordan Date		Lara Bea≲ley ∷Dai	e

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Mine ID	32	20	Structures Cou	nt QA
Source ID	NMMK0098		Structures on Mine	QA V
Mine Name	Mac No. 2		Structures within 200'	
Easting	749612.5514	41	Structures within 1/4 mile	
Northing	3935047.9800	05	Structures within 1 mile	7
Chapter1	Smith Lake	Service Control of the Control of th	Total Structures	
Combined Score	4-	Score QA	A STATE OF S	.: 00908050
review of polygon of features.	cumentation. Include extents and mine	· · · · · · · · · · · · · · · · · · ·	Wells on Mine Wells within 1/4 mile Wells within 1 mile	1
	e Water QA	in contenses	4 Mile Wells Count	9
Mine Within One I Overland of a Sur	Mile Yes	A (2005)	Total Wells QA of Well Count	10***
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Mine ID	315	Paris de descritados de la composição de	Structures Count	QA .
Source ID	NMMK0038		0	QA- 1 🗸
. nono or.infallo.			Structures on Mine	1 💌 🔭
Mine Name	Crownpoint	CONTRACTOR (AND AND AND AND AND AND AND AND AND AND	Structures within 200'	
	Отомпролис		o zapisije Science in	
Easting	750544 50450		Structures within 1/4 mile	0 🗸
	750541.58456			
Northing	3956065.93409	·	Structures within 1 mile	25 🗸
ÿ \(\)	Nahadiahaiah	bees	Total Structures	26
Chapter1	manodisngisn	No.	Total Structures	26
- 1987		Score QA		THE STREET OF THE STREET
Combined Score	1240	<u>í</u>		: 4. 200000000000000000000000000000000000
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information and do	cumentation. Include	o a company	Wells on Mine	150
	extents and mine	The section of the se	A STATE OF THE STA	
features.	William Carlo a single a singl		Wells within 1/4 mile	2
Confirm appropriate drawn for evaluatio	e buffers have been	n dia. Angelogia	Wells within 1 mile	
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Surface	e Water QA		4 Mile Wells Count	18
to 1.77 .			Total Wells	20
Mine Within One		i in	Total vens	20
Overland of a Surf	face Water		QA of Well Count	
Surface Water Sc	ore 160		Information	✓
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#	Marie Carlo	005		בעייי
Brian Jo	ordan Date		Lara Beastey Dat	(e)
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			77
Mine ID	323		Structures Count QA
Source ID	NMMK0147, NMMK0260		Structures on Mine
Mine Name	Ruby No. 3		Structures within 200' 1 ✓
Easting ::	757544.380129		Structures within 1/4 mile 1 ✓
Northing	3932903.28737		Structures within 1 mile 34
Chapter1	Smith Lake	Score QA	Total Structures 36
Combined Score	1490		
Confirm mine poly information and do review of polygon of	cumentation. Include	en distriction de la constant de la La constant de la co	Wells on Mine
features. Confirm appropriate drawn for evaluation	e buffers have been on critéria		Wells within 1/4 mile Wells within 1 mile 2
Surface Mine Within One I Overland of a Sur	THE LONG THE COMMITTEE OF THE COMMITTEE		4 Mile Wells Count 30 Total Wells 32
Surface Water Sc			QA of Well-Count information
QA officers	2 9 Jundar	<u></u>	Your Roy 9-Jun-05
Brian Jo	ordan Date		Lara Beasley Date

Mine ID	326	Structures Cou	nt QA
Source ID NMMK0057	(a particular de la companya de la c	Structures on Mine	
Mine Name Elkins	errácis destráctoras.	Structures within 200	*
Easting 767262.63	1721	Structures within 1/4 mile	0 🗸
Northing 3924536.2	6252	Structures within 1 mile	20 💆
Chapter1 Baca/Prewitt		Total Structures	20
	Score QA		, 41.
Combined Score	840		
information and documentation. Include	✓	Wells₃on Mine	
review of polygon extents and mine features.	42%	Wells within 1/4 mile	
Confirm appropriate buffers have been			
drawn for evaluation criteria	a seed to see a significant	Wells within 1 mile	4
Surface Water QA		4 Mile Wells Count	8 145
Mine Within One Mile	QA .	Total Wells	12
Overland of a Surface Water		QA of Well Count	
Surface Water Score 160	inggrang paring a sanding and sanding and sanding and sanding a sanding and sanding a sanding and sanding a sa	Information	- # \$6.000 miles
Significant Control of			
QA officers	2005	aver Daw 9	7-Jun-05
Brian Jordan Date		Lara Beastey D	ate

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Mine ID	329		Structures Count	QA OA
Source ID	NMMK0014, NMMK0073, NMMK0200		Structures on Mine	13 🗹
Mine Name	Billy the Kid	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Structures within 200	1 🗸
1 No. 10 1 No. 10 No. 1			Structures within 1/4 mile	
Easting	769073.255219		Structures within 1/4 time	
Northing	3924992.2533	#	Structures within 1 mile	28
Chapter1	Baca/Prewitt	A Surper Contract of the Surper Contract of t	Total Structures	43
		Score QA	ALL MARKET AND	
Combined Score	4040	V		r jani
Confirm mine polyg information and do review of polygon e features.	cumentation. Include		Wells on Mine Wells within 1/4 mile	
Confirm appropriate drawn for evaluation	e buffers have been value on criteria		Wells within 1 mile	6
Surface	e Water QA		4 Mile Wells Count	7
Mine Within One N Overland of a Surf Surface Water Sc	face Water		Total Wells OA of Well Count	14
QA officers	2 9 Ju Door		Jara Bear 9:	<u> </u>
Brian Jo	ordan Date	* * * * * * * * * * * * * * * * * * *	Lara Beastey Dat	e

tentions/pages	- \$2 (599 - 199 - 25 (199 - 1	. 1		
Mine ID	302		Structures Co	ount QA
Source ID	NMMK0247		Structures on Mine	
Jan 1970		e e e e e e e e e e e e e e e e e e e		The state of the s
Mine Name	Section 32, 33	المرملها بالأدانا	Structures within 2004	
in likin			garanikan a w	
Easting	770624.289185		Structures within 1/4 mi	le 1 🗹
Northing	3931522.85159		Structures within 1 mile	15
Chapter1	Casamero Lake		Total Structures	16
. Ali Grant			i vi	J
Combined Score	700	Score QA		
Confirm mine polyg				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cumentation. Include		Wells on Mine	
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ire Jakob zaskaliskom .		**å;* **å;*	vvens within 1/4 fille	siina
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Surface	e Water QA		4 Mile Wells Count	1 14
Surface	e vvalei QA	1	b :::::()	
TO THE TABLE TO TH	Aile Yes		Total Wells	15
Mine Within One N Overland of a Surf			. Å	
Overland of a Sun	ace water ,		QA of Well Count	
Surface Water Scr	ore 160		Information 💮 🦠	V
ON office		 · · · · · · · · · · · · · · · · · · 		
QA officers	2/12005	-	Vara Box	9-14-05
Brian Jo	ordan Date		Lara Beasley	Date
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Mine ID	344		Structures Cou	unt QA
Source ID NMMK0081				· Paragon I
		e St	ructures on Mine	1
Mine Name Haystack		St	ructures within 200'	. ∠
	¥ 4		sie die 1	
	590.394529		ructures within 1/4 mile	
Northing 391	15767.0307	C+	ructures within 1 mile.	
		ing the state of t		
Chapter1 Baca/Prewitt	i ju og se	10 1990 - 1990 - 1990	tal Structures	, 58
Combined Score	Score (2A —	. No. 9. Well John	
	2130			29.22
Confirm mine polygon locational information and documentation. Incl.	ude		Wells on Mine	
review of polygon extents and mine	ude .			
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Confirm appropriate buffers have bee	eu 🔼 🔏		Wells within 1 mile	2
			Market Market 197	
Surface Water QA			4 Mile Wells Count	7 7 7
		2320 2830 2830 2830 2830	Total Wells	9
Mine Within One Mile Yes Overland of a Surface Water	QA		e: 	
			QA of Well Count	V
Surface Water Score			Information	
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QA officers		, (iv/	100 10	
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Berryalisaki - 1997 Navajo AUM Nationwide Mine Name of the Ranking QA Form Kircher This Mine ID Structures Count QA Source ID NMMK0258 Structures on Mine Mine Name Silver Spur Structures within 200' Easting Structures within 1/4 mile 778435.46099 Structures within 1 mile 15 Northing 3921542.02815 Total Structures Chapter1 Baca/Prewitt Score QA Combined Score 540 Confirm mine polygon locational information and documentation. Include Wells on Mine review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile 4 Mile Wells Count Surface Water QA Total Wells Mine Within One Mile Overland of a Surface Water QA of Well Count Information Surface Water Score QA officers

Lara Beas

Date

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Mine ID	358		Structures Co	
Source ID NMMK(Structures on Mine	
(Vhápá sy sáila: vhasá (M. in.			Structures on Mille	
Mine Name Dysart	No. 1	I hade a kadada a	Structures within 200'	
Facting		Paristantian	Structures within 1/4 mi	le
Easting	783940.58644	himisikunga ja	appar :- :-	iteranden <u>in</u> energia ,
Northing	3928016.8081	sangarini	Structures within 1 mile	* ************************************
Chapter1 Off Nav	ajo Nation	• · · · · · · · · · · · · · · · · · · ·	Total Structures	7
	1 m m m m m m m m m m m m m m m m m m m	Score QA	5E.5	
Combined Score	560		Paris suppression and suppress	
Confirm mine polygon local		:::::::::::::::::::::::::::::::::::::::		
information and documenta review of polygon extents a			Wells on Mine	1 1
features.			Wells within 1/4 mile	
Confirm appropriate buffers drawn for evaluation criteria		nadas nadas	Wells within 1 mile	1 1
			S. Assemble	Mility A. v.
Surface Wat	er QA	ece (kedd) P opiniouse, so yszikak	4 Mile Wells Count	8.
Mine Within One Mile	Voc	ii engantana	Total Wells	10
Overland of a Surface Wa	ter QA			
Surface Water Score	1460	Fig. 1 of the contract of the	QA of Well Count	
Suriace vvaler Score	160	ACC TO CLARGE PERFO	NA ALC TOTAL CAMBRE MARKET	illeri. Boddhdov aucksishddkisds
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Brian Jordan	Date	· · · · · · · · · · · · · · · · · · ·	Lara Beasley	Date
	- Marie			A MONTH OF THE

Navajo AUM Nationwide Mine Ranking QA Form Mine ID Structures Count QA Source ID NMMK0214 **Mij**likais dissipida Structures on Mine 1 ✓ Mine Name Section 24 Structures within 200' Easting Structures within 1/4 mile 0 🗸 785427.153284 Northing *** Structures within 1 mile 3924926.47776 Chapter1 Off Navajo Nation Total Structures Score QA Combined Score 800 Confirm mine polygon locational information and documentation. Include Wells on Mine review of polygon extents and mine features. Wells within 1/4 mile Confirm appropriate buffers have been drawn for evaluation criteria Wells within 1 mile 2 4 Mile Wells Count 18 Surface Water QA Total Wells Mine Within One Mile QA Overland of a Surface Water \checkmark QA of Well Count Information Surface Water Score QA officers Brian Jordan Date Lara Beastey Date

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Mine ID	353		Structures Count Q	
Source ID	NMMK0220		Structures on Mine	OA ✓
Mine Name	Section 25		Structures within 200'	-2
Easting	786015.914091		Structures within 1/4 mile	<u> </u>
Northing	3923498.9791		Structures within 1 mile	30 🗸
Chapter1	Off Navajo Nation		Total Structures	30 ************************************
Combined Score	1050	Score QA		
review of polygon of features.	cumentation Include extents and mine extents and mine extents the buffers have been		Wells on Mine Wells within 1/4 mile Wells within 1 mile	1 0
Surface Mine Within One I Overland of a Sur Surface Water Sc	face Water			20
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	470	- 1960 - 19 - 1960 - 19 - 1861 - 1961	Ctri	uctures Co	unt Q/	A OA
	MMK0349		Structure	es on Mine	2	9 🗸
. A. Zahili	mbrosia Lake M ill		Structure	es within 200'		7 v
Easting	787902.360947		Structure	es within 1/4 mil	J	3 🗹
Northing	3921507.02931			es within 1 mile		5 🗹
Chapter1 O	ff Navajo Nation		● Total Str	uctures	3	8
Combined Score	7110	Score QA	·······································	· · ·	. manaagan . manaagan	· Salika Salika
	mentation. Include ents and mine		aphil (5 -	on Mine		
features. Confirm appropriate bedrawn for evaluation of	ouffers have been			within 1/4 mile within 1 mile		4
Surface	Water QA			Wells Count		0
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Surface Water Score	160		Inform	ation	·· ()*******	- reinfilmen - /
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Brian Jor	dan Date	<i>U</i> 6	Lara	Beasley	Date	



DEPARTMENT OF THE ARMY

LOS ANGELES DISTRICT, CORPS OF ENGINEERS P.O. Box 532711 Los Angeles, California 90053-2325 reed July7 SFUND R 2208486

July 1, 2005 LTR-05-110

Andrew Bain, Project Manager U.S. Environmental Protection Agency 75 Hawthorne Street SFD 8-2 San Francisco, California 94105

SUBJECT: QA REVIEW OF SCORING TABLES FOR THE NAVAJO NATION ABANDONED URANIUM MINE SCREENING ASSESSMENT STUDY

Dear Andy,

Reference is made to the U.S. Environmental Protection Agency (USEPA) and the U.S. Army Corps of Engineers (USACE) Interagency Agreement DW9695553-01-0

On June 8 and 9, 2005 Brian Jordan and Lara Beasley, USACE Project Delivery Team Quality Assurance (QA) Specialists, conducted a QA inspection of the TerraSpectra Geomatics Database for Task 4, Scoring Tables for the Navajo Nation Abandoned Uranium Mine Screening Assessment Study. They followed the NAUM Project QA Plan by completing a review of 66 mine locations. Their trip report and findings are attached to this letter.

A form documenting the review of each of the 66 sites chosen was filled out electronically and printed and signed by both Brian Jordan and Lara Beasley. The documentation of the field audits are submitted in this report.

The QA Specialists reported the findings to my office. They were impressed with both the quality and the quantity of the product. Documentation in the metadata was such that each piece of information can be verified and traced back to a source document. Only minor discrepancies were noted, and they were corrected immediately. The presentation of the data made tracking of the information very easy. The metadata was accomplished in a very professional manner, and the final product exceeded our expectations.

The USACE has completed their review of the product, and tentatively accepts the product as complete depending upon the final review comments received from the USEPA, Navajo Nation Environmental Protection Agency, and Navajo Abandoned Mine Lands Reclamation Program.

Please archive this document into the Superfund Records Center. The necessary information is included with the subject report.

Andrew Bain Page 2 of 2

QA REVIEW OF SCORING TABLES FOR THE NAVAJO NATION ABANDONED URANIUM MINE SCREENING ASSESSMENT STUDY

July 1, 2005

If you should have any questions, or if I can assist in any way, please contact me at (213) 452-3997 or by e-mail at glynn.r.alsup@spl.usace.army.mil.

Sincerely,

Olynn R. Alsup Program Manager

cc: USACE-NN-0004 Project Files Brian Jordan, USACE Thad Fukushige, USACE Kathy Anderson, USACE

Attachments: a/s